

Johnny

#111

part 1

**Jarrell, Leslie**

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**From:** Jarrell, Leslie (she/her/hers)  
**Sent:** Tuesday, March 7, 2023 8:04 AM  
**To:** [REDACTED] Graff, Jaimie [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: rabbit food and exercise

Thanks [REDACTED]! Hope they will like it.  
Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Tuesday, March 7, 2023 7:23 AM  
**To:** Jarrell, Leslie (she/her/hers) <Jarrell.Leslie@epa.gov>; [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Re: rabbit food and exercise  
**Importance:** High

Good morning,

Just wanted to let you know that the new rabbit pellet food came in last week along with the variety of new hay. [REDACTED] started the new pellets yesterday with the amount Leslie suggested feeding and she will continue over the next few weeks with the gradual change. She will give the new hay 2 times a week as suggested.

Thanks,

[REDACTED]  
Program Coordinator  
FEFA, LLC  
Contractor to US EPA  
[REDACTED]

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**From:** [REDACTED]  
**Sent:** Wednesday, March 1, 2023 10:28 AM  
**To:** Jarrell, Leslie (she/her/hers) <Jarrell.Leslie@epa.gov>; [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Re: rabbit food and exercise

Okay, it's been ordered along with the variety of hay you wanted.

Thanks,

[REDACTED]  
Program Coordinator  
FEFA, LLC

Contractor to US EPA  
[REDACTED]

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**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Wednesday, March 1, 2023 10:27 AM

**To:** [REDACTED] Graff, Jaimie  
<[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]

**Cc:** [REDACTED]

**Subject:** RE: rabbit food and exercise

Yay! Thanks [REDACTED]!!

Leslie

**From:** [REDACTED]

**Sent:** Wednesday, March 1, 2023 10:25 AM

**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED] Graff, Jaimie  
<[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]

**Cc:** [REDACTED]

**Subject:** Re: rabbit food and exercise

**Importance:** High

Yes, they have Oxbow Garden Select

<https://www.chewy.com/oxbow-garden-select-adult-rabbit-food/dp/145138>

[REDACTED]  
Program Coordinator  
FEFA, LLC  
Contractor to US EPA  
[REDACTED]

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**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Wednesday, March 1, 2023 10:17 AM

**To:** [REDACTED] Graff, Jaimie  
<[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]

**Cc:** [REDACTED]

**Subject:** RE: rabbit food and exercise

Hi [REDACTED]

OK then let's switch to Oxbow Garden Harvest Adult pellets if those are at Chewy?

Thanks,

Leslie

**From:** [REDACTED]

**Sent:** Wednesday, March 1, 2023 10:14 AM

**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED] Graff, Jaimie  
<[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]

**Cc:** [REDACTED]

**Subject:** Re: rabbit food and exercise

**Importance:** High

Hi Leslie,

We have been looking around on where to buy it. Unfortunately Chewy does not carry it and the only other place I found is Tractor Supply, are you ok with this?

Thanks,

[REDACTED]  
Program Coordinator  
FEFA, LLC  
Contractor to US EPA  
[REDACTED]

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**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Wednesday, March 1, 2023 9:27 AM

**To:** [REDACTED] Graff, Jaimie

<[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

[REDACTED]

**Cc:** [REDACTED]

**Subject:** RE: rabbit food and exercise

Thanks [REDACTED] That's good to know. Plus will be easier to switch!

If possible, if the Oxbow Adult Simple Harvest pellets could be purchased, that would be great. Maybe just the small bag. If the rabbits could have ¼ of the new pellets and ¾ of the old pellets once daily for a week, that would work very well. These have higher fiber, so will need to be a very slow change. Some rabbit breeders/ producers change over much faster, so I am not expecting any problems. Second week; 50/50, Third week 75/25 and 4<sup>th</sup> week 100% on new pellets. Total volume should stay at ½ cup/ day.

<https://oxbowanimalhealth.com/product/simple-harvest-adult-rabbit-food/>

thanks very much,  
Leslie

**From:** [REDACTED]

**Sent:** Wednesday, March 1, 2023 9:22 AM

**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED] Graff, Jaimie

<[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

[REDACTED]

**Cc:** [REDACTED]

**Subject:** Re: rabbit food and exercise

**Importance:** High

Hi Leslie,

[REDACTED] said the line on the cup is more on the ½ cup mark



Program Coordinator  
FEFA, LLC  
Contractor to US EPA

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**From:** [REDACTED]  
**Sent:** Wednesday, March 1, 2023 9:05 AM  
**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED] Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Re: rabbit food and exercise

Hi Leslie,

The rabbits get ¼ cup of the pellet food a day.

Thanks,

[REDACTED]  
Program Coordinator  
FEFA, LLC  
Contractor to US EPA  
[REDACTED]

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**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>  
**Sent:** Tuesday, February 28, 2023 2:02 PM  
**To:** [REDACTED] Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: rabbit food and exercise

Hi [REDACTED]  
If possible, it would be great to think about starting the rabbits on the new Oxbow diet. Do the rabbits get 1 cup of 5P25 daily? If not, what is the volume?  
Thank you,  
Leslie

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**From:** [REDACTED]  
**Sent:** Tuesday, February 14, 2023 3:31 PM  
**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: rabbit food and exercise

Hi Leslie,

Thanks for this info, its very helpful.

Currently the 5P25 rabbit diet is sold in 30lb bags. The oxbow diet will be more flexible, I believe they have it in 5, 8, 10 and 20lb bags.

Its not a problem to do a mix, just let us know the ratio of oxbow to 5P25 and we'll make it happen.

Thanks,

**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Tuesday, February 14, 2023 3:07 PM

**To:** [REDACTED] Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Cc:** [REDACTED]

**Subject:** RE: rabbit food and exercise

Hi again,

Oxbow has emailed that they have an expiration date on all products, except for the Enriched life and Timothy Club products. They do not have milled dates.

Here are their recommendations;

Oxbow guarantees our Critical Care, food, treats and supplements UNOPENED = for 2 years (which is the best by date found on the package).

Specifically related to our fortified food, that is good for 90 days after opening if kept in the original packaging, and 60 days if transferred to a different container. We have done extensive shelf-life testing and have found after those allotted time periods, though the fiber content tends to stay relatively consistent, we can no longer guarantee the freshness and vitamin/mineral stability of the product. Though the product typically does not immediately become rancid or unsafe to feed after reaching the best by date, it will not provide our otherwise guaranteed complete nutritional profile.

The PI has approved this diet change, and has approved increased time in play pen. Would it be possible to feed multiple pelleted diets for a lengthy transition period? I would like to keep the rabbits on current 5P25 pellet diet in a small percentage. What is the smallest amount of 5P25 pellet diet that can be bought? If so, I will send a proposed feed change schedule/ amount later this month.

Thank you,  
Leslie

**From:** Jarrell, Leslie (she/her/hers)

**Sent:** Tuesday, February 14, 2023 10:57 AM

**To:** [REDACTED] Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Cc:** [REDACTED]

**Subject:** RE: rabbit food and exercise

Hi [REDACTED]  
That's great news!  
Thank you,  
Leslie

**From:** [REDACTED]  
**Sent:** Tuesday, February 14, 2023 10:52 AM  
**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: rabbit food and exercise

Hi Leslie,

Bunnies are getting 15+ minutes of exercise a day. Please note that this is usually a combination of hopping around, investigating and lounging! 😊 Sometimes they like to just spread out in the corner and chill.

We will wait to order the feed until you give us the OK and then we'll write a plan up for the feed acclimation plan.

1 carrot a month it is!

Thanks!

[REDACTED]  
**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>  
**Sent:** Monday, February 13, 2023 8:35 AM  
**To:** [REDACTED] Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: rabbit food and exercise

Thanks [REDACTED] Please don't start any feed pellet changes yet. I am checking with lab, and I will need time for charting.

I think one carrot a month is OK.

OK please let me know the amount of exercise time per rabbit per day.

Thank you

**From:** [REDACTED]  
**Sent:** Monday, February 13, 2023 7:59 AM  
**To:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]  
[REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: rabbit food and exercise

Hi Everyone,

Lets close the loop up on this:

Leslie, we can order the food you requested below and start an incremental change over. This will be a little different as the oxbow feed probably wont have a Mill Date on them. How do you want us to handle the expiration date? Currently we are operating on 6 months after Mill Date. I would recommend 6 months from receipt OR the printed expiration date. Whichever comes first.

We will limit to 1 carrot per month (can we do a quarter carrot once a week?? Or should we eliminate carrots all together and look for a less sugary substitute)

I've requested that [REDACTED] increase play time for the 3 bunnies. I'll confirm its on her schedule.

Thanks!

**From:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>

**Sent:** Monday, February 13, 2023 7:35 AM

**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]

**Cc:** [REDACTED]

**Subject:** RE: rabbit food and exercise

I thought we were already talking about/doing these things?  
Jaimie

**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Friday, February 10, 2023 3:03 PM

**To:** [REDACTED]

**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** RE: rabbit food and exercise

Checking in

1. OK to discuss possibly adding different brands of pellets?
2. I spoke w [REDACTED] briefly about treats- she thinks they are getting a fair number of treats!!
3. Play pen time increases possible?

**From:** Jarrell, Leslie (she/her/hers)

**Sent:** Wednesday, February 8, 2023 8:08 AM

**To:** Dunn, Jenelle N. <[Dunn.Jenelle@epa.gov](mailto:Dunn.Jenelle@epa.gov)>; [REDACTED]

**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** RE: rabbit food and exercise



Hi, I'm looking at these pellets,

<https://oxbowanimalhealth.com/product/essentials-adult-rabbit-food/>

It looks like they come in a 25# bag. I will figure out how long that would last for ¾ cup per rabbit per day. They have a senior diet, but it has less fiber. Maybe will use that pellet later.

I'd like to switch them extremely slow, over several months. Even then I would probably keep them on a little bit of the old pellets. It is important that they have very slow changes, and that they accept the new pellets.

I will email the lab.

Thanks,

Leslie

**From:** Jarrell, Leslie (she/her/hers)

**Sent:** Tuesday, February 7, 2023 3:32 PM

**To:** [REDACTED]

**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** RE: rabbit food and exercise

Hi all,

Quote from our rabbit expert, "They are only growing girth-wise at this point."

I will look into timothy hay based pellets. Also advice; no more carrots, too much sugar! Let's drop carrots to once a month. They need to have a little fun. Wyatt has an increased body condition score. Johnny and Doc- you can feel ribs, mostly.

Thanks,

Leslie

**From:** Jarrell, Leslie (she/her/hers)

**Sent:** Tuesday, February 7, 2023 11:44 AM

**To:** [REDACTED]

**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** RE: rabbit food and exercise

Thanks [REDACTED] This one has more protein and less fiber than their other one.

I've got this Rabbit Body Condition Score, within this rabbit obesity article, that was used in an AALAS poster. If possible if it could be printed? Rabbits can store fat in folds and inguinal besides just over back/ hips.

<https://lafeber.com/vet/body-condition-scoring-the-rabbit/>

Thanks,

Leslie

**From:** [REDACTED]

**Sent:** Tuesday, February 7, 2023 11:30 AM

To: Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]

Cc: Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** Re: rabbit food and exercise

**Importance:** High

Hi Leslie,

We use the 5P25. I attached both so you can compare.

[REDACTED]  
Program Coordinator  
FEFA, LLC  
Contractor to US EPA  
[REDACTED]

**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Tuesday, February 7, 2023 10:57 AM

**To:** [REDACTED]

Cc: Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** RE: rabbit food and exercise

Hi [REDACTED]

OK cool. Is the Pro lab Hi Fiber the same as #5326?

Would it be OK to consider some of the Oxbow rabbit pelleted diets? They are timothy based. I'm not sure if they can be irradiated etc. But the hay isn't irradiated. Or does anyone know of a vendor besides Purina/ LabDiet for lab rabbit diets? I checked w Purina, and they seem to only have alfalfa based pellets.

I wonder if the treats could be contributing. I give each rabbit a treat once a week, at least!

Thanks,  
Leslie

**From:** [REDACTED]

**Sent:** Tuesday, February 7, 2023 10:45 AM

**To:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]

Cc: Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** Re: rabbit food and exercise

**Importance:** High

Hi Leslie,

The pellet food we use is the ProLab High fiber. I just talked to [REDACTED] and the rabbits get 1 carrot per week as instructed.

[REDACTED] can you pipe in about play pen time being increased?



Thanks,

[REDACTED]  
Program Coordinator  
FEFA, LLC  
Contractor to US EPA  
[REDACTED]

**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Tuesday, February 7, 2023 10:15 AM

**To:** [REDACTED]

**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
[REDACTED]

**Subject:** rabbit food and exercise

Hi all,

The rabbits have been gaining some weight. Checking in, on how many carrots they get? Most of their calories come from pellets- will need to look into that. They need a little pellets for vitamins etc. However maybe should offer additional brand, or less pellets overall. I think these pellets are alfalfa based. Would you possibly send me the pellet name, is if the Lab Diet rabbit hi fiber plain or certified?

With 3 rabbits now, would it be possible to increase their time in play pen, a little bit? Possibly more activity time to stretch would be good. If possible, if the grain pan(s) can be put back into the playpen? If they are upside down then they can hop on one.

Thank you,  
Leslie

Leslie Jarrell, JD, DVM, DACLAM, CertAqV (WAVMA)  
Contractor for the US EPA- MPF Federal  
Attending Veterinarian for RTP campus and Health IACUC  
109 TW Alexander Dr, MD# B143-03  
Research Triangle Park, NC 27709  
[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)  
Pronouns- she, her  
Work cell 919-704-0532

**Jarrell, Leslie**

---

**From:** Jarrell, Leslie (she/her/hers)  
**Sent:** Wednesday, March 1, 2023 10:27 AM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbit pelleted diet- question

Thanks [REDACTED]

Since we did not find any parasites or disease processes with their skin lesions, I'm thinking it is probably some diet related issue. They have been on the Purina pellets only, and those are for production rabbits- not expected to be around after 3 years. Hopefully changing pellets and adding a variety of hays and pellets will give them a larger variety of nutrients and resolve their skin issues.

Thanks again,  
Leslie

**From:** [REDACTED]  
**Sent:** Wednesday, March 1, 2023 10:25 AM  
**To:** Jarrell, Leslie (she/her/hers) <Jarrell.Leslie@epa.gov>  
**Cc:** Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
**Subject:** RE: Rabbit pelleted diet- question  
**Importance:** High

Ok – makes sense if they don't start losing weight.

**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>  
**Sent:** Wednesday, March 1, 2023 10:01 AM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]  
**Subject:** RE: Rabbit pelleted diet- question

We will order a small bag of Simple Harvest to try out. Will do a very slow change, with ¼ new and ¾ old pellet, changing over in about 4 weeks. I am not expecting any issues. Will add the others over time, if OK with you.  
Thanks,  
Leslie

**From:** Jarrell, Leslie (she/her/hers)  
**Sent:** Tuesday, February 28, 2023 2:23 PM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** Rabbit pelleted diet- question

**Importance:** High

Hi [REDACTED]!

Hope you are doing well. Currently the bunnies are on a Purina pellet with high protein and low fiber. It is meant for production. I'd like to switch them to lower protein and higher fiber pellet, because they will be 5 years old.

These are all Oxbow pellets. One of them called Essential Senior. It has **turmeric, chamomile and ginger** in it. I looked it up on Pubmed, and these actually look like they help sperm production, and motility after freezing. Would that be OK to try?

<https://oxbowanimalhealth.com/product/essentials-senior-rabbit-food/>

The other 2 don't have those additives

Simple Harvest- Adult

<https://oxbowanimalhealth.com/product/simple-harvest-adult-rabbit-food/>

Garden Select Adult

<https://oxbowanimalhealth.com/product/garden-select-adult-rabbit-food/>

Thanks,

Leslie

Leslie Jarrell, JD, DVM, DACLAM, CertAqV (WAVMA)  
Contractor for the US EPA- MPF Federal, Inc  
Attending Veterinarian for RTP campus and Health IACUC  
109 TW Alexander Dr., MD# B343-03  
Research Triangle Park, NC 27709  
[Jarrell.leslie@epa.gov](mailto:Jarrell.leslie@epa.gov)  
Pronouns- she, her  
Work cell 919-704-0532

## Jarrell, Leslie

---

**From:** Jarrell, Leslie (she/her/hers)  
**Sent:** Monday, February 13, 2023 10:54 AM  
**To:** [REDACTED]  
**Subject:** Re: Rabbit diet and playpen

Thanks [REDACTED]  
Leslie

Sent from my iPad

On Feb 13, 2023, at 9:59 AM, [REDACTED] wrote:

ok

**From:** Jarrell, Leslie (she/her/hers) <Jarrell.Leslie@epa.gov>  
**Sent:** Monday, February 13, 2023 8:45 AM  
**To:** [REDACTED]

**Cc:** Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
[REDACTED]

**Subject:** Rabbit diet and playpen  
**Importance:** High

Hi all,  
Checking in that it would be OK to change the rabbits' diet a little. I would like to switch extremely slowly to timothy based pellets, instead of the current alfalfa based pellets. Wyatt has gained excess weight, and the other 2 do not need excess weight either. Obesity contributes to foot lesions and other health issues. Also will limit carrots further, to once a month, per rabbit. Goal is to stop the weight gain and maybe get them a little more fit.

Also, on the same thought, would like to increase their time in the playpen. Would that work ok?  
Thank you,  
Leslie

Leslie Jarrell, JD, DVM, DACLAM, CertAqV (WAVMA)  
Contractor for the US EPA- MPF Federal  
Attending Veterinarian for RTP campus and Health IACUC  
109 TW Alexander Dr, MD# B143-03  
Research Triangle Park, NC 27709  
[Jarrell.leslie@epa.gov](mailto:Jarrell.leslie@epa.gov)  
Pronouns- she, her  
Work cell 919-704-0532



**Jarrell, Leslie**

---

**From:** Jarrell, Leslie (she/her/hers)  
**Sent:** Thursday, February 2, 2023 3:13 PM  
**To:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: IDEXX BioAnalytics Case 102454-2023 - Jasper  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi [REDACTED]  
Currently I am discontinuing selamectin applications. No, that should not cause hypersalivation. Wyatt more likely has mild/ brewing dental disease, and also occasionally has leftover critical care slobber.

I'm not planning to implement any vitamin D supplementation as hypervitaminosis D has been reported in a variety of rabbits, and we do not have consensus on normal range. Right now, the tiny cheek scabs are not causing any clinical issues, or causing rabbits to scratch. So I do not think they are causing inflammation/ irritation to the rabbits, which is confirmed on histopath samples.

I would consider feeding an increasing variety of rabbit pellets and hays. For instance, offer more variety in the Oxbow hays, and small amounts of different diets within the family of LabDiet / Purina rabbit pellets.

Thanks,  
Leslie

**From:** [REDACTED]  
**Sent:** Thursday, February 2, 2023 3:02 PM  
**To:** Jarrell, Leslie (she/her/hers) <Jarrell.Leslie@epa.gov>; [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
**Subject:** RE: IDEXX BioAnalytics Case 102454-2023 - Jasper

Hey Leslie,

Thanks for sharing!  
Taking the results from both this necropsy and the previous ectoparasite test into consideration, what is the plan for the selamectin treatments? Also, is it possible that the crusted material that we have seen under Wyatt's chin (AHR# 22192) is related to this hyperkeratosis/follicle atrophy finding rather than dental disease? I'd be interested to hear if the pathologist that you're consulting with has any thoughts on it.

Thanks,

[REDACTED]  
(Pronouns: they/them/their)  
Animal Health Specialist  
MPF Federal  
Contractor to US EPA  
[REDACTED]

**From:** Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>

**Sent:** Thursday, February 2, 2023 2:43 PM

**To:** [REDACTED]

Graff, Jaimie <[Graff.Jaimie@epa.gov](mailto:Graff.Jaimie@epa.gov)>; [REDACTED]

**Subject:** FW: IDEXX BioAnalytics Case 102454-2023 - Jasper

Hi all,

This is the report for Jasper's biopsies. He had myocardial necrosis, with fibrosis and heart valve degeneration. The pathologists (4 of them!) thought that the heart changes were chronic, and resulted in a cardiomyopathy, with some degree of heart failure.

Skin- no signs of mites, or inflammation, or anything infectious. I suspect skin issues could be related to age as suggested, or could be vitamin D related. I am consulting with the pathologist. Vitamin D levels are not well documented in rabbits. It is hard to consider supplementing, if you don't know the normal range. There was a paper where they documented that rabbits got more vitamin D from hay and pellets, than they did with exposure to natural sunlight. It was a survey though. Vit D receptor knockout mice can have hair follicle abnormalities, similar to what the pathologists saw.

Thank you,  
Leslie

**From:** IDEXX BioAnalytics <[IDEXXBioAnalytics@idexx.com](mailto:IDEXXBioAnalytics@idexx.com)>

**Sent:** Thursday, February 2, 2023 12:19 PM

**To:** [REDACTED] Jarrell, Leslie (she/her/hers) <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]

**Subject:** IDEXX BioAnalytics Case 102454-2023

Results for case 102454-2023 are now available on the [IDEXX BioAnalytics](https://www.idexx.com/bioanalytics) web site. Please reply if you have questions or wish to discuss this case.

Attachments	
File Name	Description
IDEXX_Case_102454-2023.pdf	IDEXX Case 102454-2023 Report



**Jarrell, Leslie**

---

**From:** Jarrell, Leslie (she/her/hers)  
**Sent:** Thursday, February 2, 2023 2:43 PM  
**To:** [REDACTED] Graff, Jaimie [REDACTED]  
**Subject:** FW: IDEXX BioAnalytics Case 102454-2023 - Jasper  
**Attachments:** IDEXX\_Case\_102454-2023.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi all,  
This is the report for Jasper's biopsies. He had myocardial necrosis, with fibrosis and heart valve degeneration. The pathologists (4 of them!) thought that the heart changes were chronic, and resulted in a cardiomyopathy, with some degree of heart failure.

Skin- no signs of mites, or inflammation, or anything infectious. I suspect skin issues could be related to age as suggested, or could be vitamin D related. I am consulting with the pathologist. Vitamin D levels are not well documented in rabbits. It is hard to consider supplementing, if you don't know the normal range. There was a paper where they documented that rabbits got more vitamin D from hay and pellets, than they did with exposure to natural sunlight. It was a survey though. Vit D receptor knockout mice can have hair follicle abnormalities, similar to what the pathologists saw.

Thank you,  
Leslie

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**To:** [REDACTED] Jarrell, Leslie (she/her/hers) <Jarrell.Leslie@epa.gov>;  
[REDACTED]  
**Subject:** IDEXX BioAnalytics Case 102454-2023

Results for case 102454-2023 are now available on the [IDEXX BioAnalytics](#) web site. Please reply if you have questions or wish to discuss this case.

Attachments	
File Name	Description
IDEXX_Case_102454-2023.pdf	IDEXX Case 102454-2023 Report

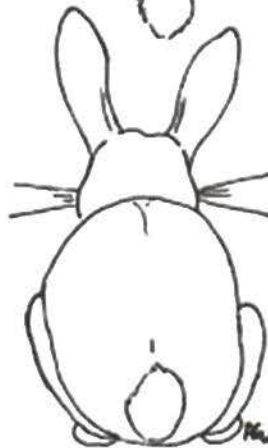
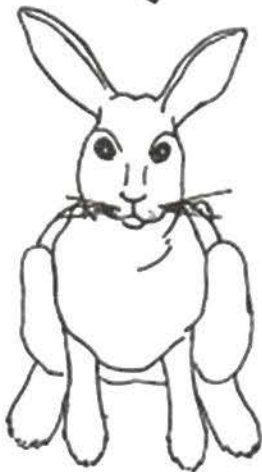
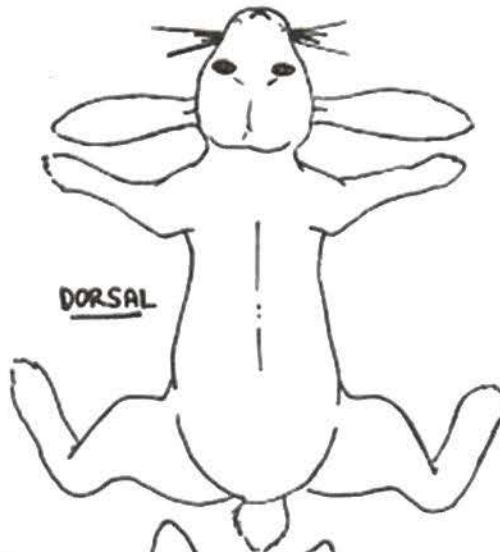
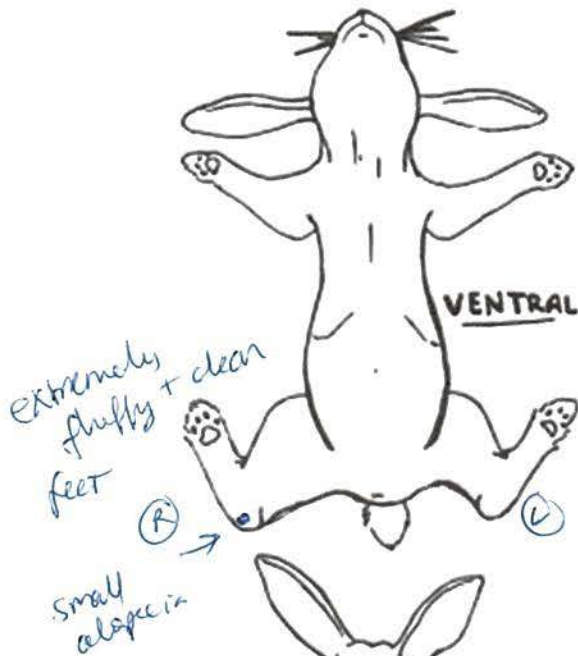
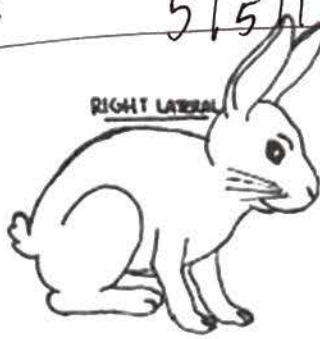
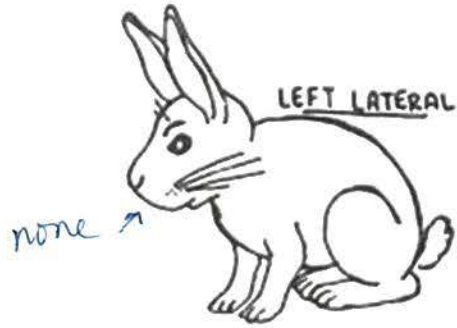
Date 11/17/22

exam

Johnny # 111

DOB

5/5/18



Makal Animal Clinic, Inc. 420 Ulfu Street, Kalua, HI 96734 808-262-9621

Nov 2021 weight 3.46 kg

11/17/22 weight 3.69 kg

3/21/23 - Diet D under way - ? improve scales?  
eg

Jarrell, Leslie (she/her/hers)

AHR 22187

**From:** Jarrell, Leslie  
**Sent:** Friday, December 30, 2022 2:55 PM  
**To:** [REDACTED] Leslie Jarrell (MPF); [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: AHR# 22187- resolved, and AHR closed

Johnny

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi all, Rechecked this rabbit today. S/O; BARH, no eye discharge, eyelids with no erythema, no blepharospasm. A/P; eye issue appears resolved. Close AHR.

Thank you,  
Leslie

Leslie Jarrell, JD, DVM, DACLAM, CertAqV (WAVMA)  
Contractor for the US EPA- MPF Federal  
Attending Veterinarian for RTP campus and Health IACUC  
109 TW Alexander Dr, MD# B143-03  
Research Triangle Park, NC 27709  
Jarrell.leslie@epa.gov  
Pronouns- she, her, hers  
Work cell 919-704-0532

**From:** Jarrell, Leslie  
**Sent:** Tuesday, December 27, 2022 2:28 PM  
**To:** [REDACTED] Leslie Jarrell (MPF) <ljarrell@mpffederal.com>; [REDACTED]

**Cc:** [REDACTED]  
[REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

**Subject:** RE: AHR# 22187- update Tues 12272022  
**Importance:** High

Hi all,  
Thanks so much for seeing this rabbit [REDACTED]!

Update 12/27/22. S/O: Single housed male intact NZW rabbit #111, Johnny, bright, alert, responsive and hydrated (BARH). Today Johnny's left eye has very mild erythema of eyelids. Fur near eye is a bit yellow because the terramycin ointment is yellow. No blepharospasm, epiphora or discharge.

A: Suspect irritation from shampoo

P: 1. Discontinue topical terramycin today due to improvement of signs

2. Monitor once daily for increased inflammation after discontinuing antibiotics, or any discharge from left eye, or if Johnny is rubbing his eye or scratching. Kept treatment sheet up for monitoring and notes/ comments daily.

Thanks,  
Leslie

Leslie Jarrell, JD, DVM, DACLAM, Cert. AqV (WAVMA)  
Contractor for the US EPA- MPF Federal  
Attending Veterinarian for RTP campus and Health IACUC  
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[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)  
Pronouns- she, her, hers  
Work cell 919-704-0532

From: [REDACTED]

Sent: Friday, December 23, 2022 4:23 PM

To: Leslie Jarrell (MPF) <[ljjarrell@mpffederal.com](mailto:ljjarrell@mpffederal.com)>; Jarrell, Leslie <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]

Subject: Re: AHR# 22187

Dear All,

My assessment is similar to that described in the AHR for rabbit 111 "Johnny". The Left eye has mild peri-orbital swelling and inflammation present along with evidence of dry crusty material. No blepharospasm (squinting) or pawing at the sight, so suggests that it isn't painful and therefore less likely involving any corneal ulceration though we were not able to find any fluorescein stain for more definitive diagnosis of that condition. Rabbit 111 was observed to eat during this time and took a treat readily so also suggestive that it is not painful or in distress. Terramycin ophthalmic ointment was applied and treatment with terramycin will continue SID until Tuesday with a re-check at that time. If there are any questions, please feel free to contact me.

Best,

[REDACTED] DVM, DACLAM, MBA

On Friday, December 23, 2022 at 09:37:40 AM EST, [REDACTED] wrote:

Hey all,

I had a look at this animal when the AHR came in. The conjunctiva of the left eye is swollen and very red. Discharge is a milky white with a little bit of red. Animal is otherwise BARH. I watched him in the cage for a little bit and he wasn't rubbing at the eye or trying to wipe his face on anything. Technician believes that the animal could have possibly gotten soap in his eye during the bath.

Thanks!

From: [REDACTED]

Sent: Friday, December 23, 2022 9:31 AM

To: Leslie Jarrell (MPF) <[ljjarrell@mpffederal.com](mailto:ljjarrell@mpffederal.com)>; Jarrell, Leslie <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]



**Subject:** AHR# 22187

**Number:** 22187

**Date Found:** 12/23/22

**Time Found:** 8:25am

**Found by:** [REDACTED]

**Room:** A486B

**Investigator:** [REDACTED]

**LAPR#:** 25-04-001

**Species/Strain:** Rabbit/NZW

**Sex:** Male

**DOB:** 05/15/2018

**Bred:**

**Date Received:** 08/02/2018

**Animal ID/Cage #:** 111

Discharge from left eye. Area around left eye swollen. Had a bath yesterday. Eye discharge looks milky.

AHR Number: 22187Close Date: 12/30/22Room: 486 B

## US EPA RTPP Campus Animal Health Report

12/23/22 Left eye (OS) periorbital slight amount of swelling + inflammation.  
 No blepharospasm. No reports of pain or scratching.  
 Mild dry crusty discharge seen. Observed eating +  
 looking healthy.  
 Applied terramycin ophthalmic. Plan to  
 SID treatment and recheck 12/27

Treatment Sheet Needed?

Yes ☒ No ☐

Date Completed \_\_\_\_\_

	DATE	TIME		Initials
	12/27/22	11 AM	S/O BARH (L) eye with mild erythema of eyelids + - no blepharospasm - no epiphora or discharge (A) suspect irritate from shampoo (P) 1. Discontinue topical terramycin 2. Monitor SID for increased inflammation or any discharge	
	12/30/22	AM	→ Recheck S/O BARH. No eye discharge, Eyelids - no erythema No blepharospasm (A/P) Appears resolved Resolve AHR	ty
			Closed 1/30/22 ty	

Rev 10-2019  
LJ

BARH = Bright, Alert, Responsive, Hydrated  
 BNP = (topical) Antibiotic ointment with  
 Bacitracin, Neomycin, Polymixin  
 SID = Once daily; BID = Twice daily  
 Rev 10-2019

ATTACH ANY TREATMENT SHEETS TO RECORD AFTER CLOSURE



AHR Number: 22189

Room: 486 B

Date Opened: 12/23

Date Closed: 12/30/22

*Chrysomelidae*

Species Rabbit Strain NZ12

Sex M ID# 111

**Clinical Diagnosis:** Left eye (OS) conjunctivitis & iridochori

Treatment	Route	Volume	Frequency
1. <del>Ferramycin</del>	<del>ophthalmic</del>	<del>Discontinue</del>	<del>12/27/22</del>
2. Monitor left eye for discharge or redness			
3.			

Date	Time	Notes	Initials
12/23	11:30	Some pre-orbital swelling and evidence of dry crusts, discharge. Minimal to no hyperaemia. Seen early. Does not appear painful.	
12-24-22	8:24Am	Applied Terramycin ointment Left eye	
12-25-22	8:13Am	Applied Terramycin ointment to Left eye	
12-26-22	8:28am	Applied Terramycin ointment to Left eye	
12/26			
12/27/22		Discontinue terramycin Monitor (L) eye for redness + discharge SID - none	SM JH

## FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

1-800-669-0825 1-573-499-5700

idexxbioanalytics@idexx.com

www.idexxbioanalytics.com

IDEXX BioAnalytics Case # 133695-2022

Received Date: 12/2/2022

Completed: 12/5/2022

## Submitted By

[REDACTED]  
MPF Federal  
109 TW Alexander Dr  
[REDACTED]  
RTP, NC 27709

Phone: [REDACTED]

Email: [REDACTED]

## Study Director

Leslie Jarrell  
MPF Federal  
109 T.W. Alexander Drive, MD 105-10  
Research Triangle Park, NC 27709

Phone: 919-541-5155

Email:

jarrell.leslie@epa.gov; [REDACTED]

## Specimen Description

Species: rabbit  
Breed/Strain: NZW  
Description: Other  
Number of Specimens/Animals: 1  
Study: clinical

Client ID	Species	Strain /Breed	Sex	Collection Date
1	rabbit	NZW	M	11/29/2022

## Services/Tests Performed: Ectoparasites - Fur Pluck (1)

Parasitologic evaluation for: fur mites, mesostigmata mites, lice

## General Comments: Other - Fur Pluck

Summary: All test results were negative. Please see the report for details.

## PARASITOLOGY

	1
parasites	-

Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Sunday, December 4, 2022 11:25 AM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie; [REDACTED]  
**Subject:** RE: Rabbits - update 11292022- starting treatment w selamectin  
**Importance:** High

Hi [REDACTED]  
I have not yet received results from ectoparasite testing at IDEXX. However based on clinical signs and number of rabbits affected, I will treat them as though they are positive for Cheyletiella mites.

I plan to start treatment on Monday afternoon. It is topical selamectin. They will get approximately 12 mg/kg, topically. The frequency is every 2 to 4 weeks. I'd like to start them at every 2 weeks but it is a holiday week.

Schedule will be Monday Dec 5, Tues Dec 27 and Mon Jan 9. Hopefully that will be all that is needed. Regular clean-up should be good.

**For animal care staff and lab staff;** Be sure not to touch the selamectin when it is wet, with bare hands. Once it is dried, it is OK to touch, about 24 hours. This is not the brand name Revolution (dog/ cat flea/tick topical), but the same compound as Revolution (selamectin). I copied [REDACTED] just in case.

[REDACTED] if possible, if [REDACTED] can help me on Monday, say at 1 pm?

Thanks,  
Leslie

**From:** Jarrell, Leslie  
**Sent:** Tuesday, November 29, 2022 3:57 PM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]  
**Subject:** Rabbits - update 11292022

Hi all,  
[REDACTED] and I did the rabbits' exams on Nov 17, 2022.

1. Jasper 104. DOB 5/7/14. Weight 11/21/22= 3.81 kg, Weight 11/21/21= 3.65 kg, Weight 4/26/21= 3.66 kg, Weight 4/27/2020= 3.96 kg. Bright, alert, responsive and hydrated. **Pinpoint scabs** at both sides of face on cheeks, no alopecia, no pruritus. Very mild pododermatitis both hind feet. Fur is thin but clean on ventral surface of feet. 1 cm diameter subcutaneous mass, freely movable, right lateral chest. Perineum slightly pink but not inflamed. Monitor.



2. Wyatt 109. DOB 5/5/18. Weight 11/21/22= 4.16 kg, Weight 11/21/21= 3.84 kg, Weight 4/26/21= 3.66 kg. Weight 4/27/2020= 3.68 kg. Bright, alert, responsive and hydrated. Pinpoint scabs at both sides of face on cheeks, no alopecia, no pruritus. Mild pododermatitis right hind foot. Feet are well furred and clean. Small circle of alopecia only 2 mm diameter circle at point of hock right foot only.
3. Doc 110. DOB 5/5/18. Weight 11/21/22= 3.52 kg, Weight 11/21/21= 3.49 kg, Weight 4/26/21= 3.44 kg, Weight 4/27/2020= 3.34 kg. Bright, alert, responsive and hydrated. Pinpoint scabs at both sides of face on cheeks, no alopecia, no pruritus. Right ear pinna has healed old wound from bite, with skin tag, healed well. Mild pododermatitis both hind feet. Clean, well furred feet. Small circle of alopecia 2 mm diameter circle at point of hock right hind and about 4 mm diameter on left hind.
4. Johnny 111. DOB 5/5/18. Weight 11/21/22= 3.69 kg, Weight 11/21/21= 3.46 kg, Weight 4/26/21= 3.53 kg. Weight 4/27/2020= 3.48 kg. Bright, alert, responsive and hydrated. Mild pododermatitis both hind feet. Very clean, well furred feet. Small circle of alopecia 2 mm diameter circle at point of hock right foot only.

Notes;

- Wyatt has gained weight. Recommend decrease his pellets by ¼ cup per day
- Suspect Cheyletiella mites. Jasper, Doc and Johnny have localized areas with small scabs with tufts of fur attached, only around jaws. No alopecia or lesions at mouth/ lip commissures or genitalia. We looked carefully at lesions but did not see any mites moving. Did not see mites on slides of tape tests either.
- Cheyletiella mites are generally species specific. However the rabbit species, *Cheyletiella parasitivorax*, prefers rabbits but can affect other species (dog, cat, people) and is zoonotic. Transmission; direct animal to animal or fomites.
- Today we took some fur samples w scabs for ectoparasite testing at IDEXX. Ordering selamectin for treatment. I will treat the rabbits even if tests come back negative, as mites are not always seen in all samples. Cheyletiella infestation can be asymptomatic. I don't expect issues with either having mites or treatment with topical selamectin.

Thanks very much,  
Leslie

## Jarrell, Leslie

**From:** Jarrell, Leslie  
**Sent:** Tuesday, November 29, 2022 3:57 PM  
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**Cc:** Graff, Jaimie; [REDACTED]  
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Thanks very much,  
Leslie

**Selarid™**  
(selamectin)



12/5/22  
[Signature]

Selarid  
12/28/22

[Signature]

still 1  
scabs.

Dartall  
porous  
rays

[Signature]

Selarid  
1/11/23

[Signature]  
few scabs  
only

[Signature]

3/21/23 - No mites. scabs → Diet underway [Signature]



## FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

1-800-669-0825 1-573-499-5700

idexxbioanalytics@idexx.com

www.idexxbioanalytics.com

IDEXX BioAnalytics Case # 102454-2023

Received Date: 1/26/2023

Completed: 2/2/2023

## Submitted By

Leslie Jarrell

MPF Federal

109 T.W. Alexander Drive, MD 105-10

Research Triangle Park, NC 27709

Phone: 919-541-5155

Email:

jarrell.leslie@epa.gov

## Specimen Description

Species: rabbit

Breed/Strain: NZW

Description: Tissues

Number of Specimens/Animals: 1

Study: clinical case

Client ID	Species	Strain /Breed
1	rabbit	NZW

## Services/Tests Performed: Diagnostic Pathology Services (1)

Histopathologic evaluation for: heart, lung, pericardium , skin, SQ mass

**General Comments:** 1. Skin sample from dorsal/lateral neck, with multiple small scabs throughout. Ectoparasite sample IDEXX Bioanalytics case # 133695-2022 was negative for rabbit mites. Rabbits treated with 3 rounds selamectin topically anyway q2 weeks x 3, with complete bedding change. Still scabs. 2. Heart and adjacent tissue- apex of heart was attached to chest wall with ?? adhesions? 3. SQ skin mass on ventral midline, soft tissue; This rabbit was a 905 year old NZW intact male, with history of gastric stasis and suspected arthritis/weakness front legs would slide out on cage floor; Tissues - skin

## Summary:

## DIAGNOSIS:

Skin: mild to moderate orthokeratotic hyperkeratosis, epidermal atrophy, hair follicles atrophy

Heart: myocardial necrosis with interstitial fibrosis, multifocal and valvular myxomatous degeneration

Pericardium / adipose tissue: fibrosis

SQ mass: fibroma

## COMMENTS:

This case was reviewed by 3 additional pathologists with interest in laboratory animal pathology. The hyperkeratosis in

the skin could explain the presence of small scales. Given the presence of epidermal atrophy (thinning) and hair follicles atrophy, an underlying endocrine disorder or age related cause are the 2 main differentials. There was no significant inflammation or evidence of an infectious etiology. In one skin sample, there was an increased in dermal fibrosis / subcutaneous fibrosis interpreted to be a fibroma, which is an incidental age related finding. The changes in the heart are chronic and likely resulted in a cardiomyopathy. This could have resulted in some degree of heart failure, which could explain the presence of fibrosis in the pericardium / adipose tissue and the adhesion noted at necropsy. Once again, there was no evidence of inflammation or infectious etiology. The cardiac changes are likely age related as this animal was 9.5 years old, which is relatively old for a rabbit.

██████████ DVM, Diplomate ACVP

Please feel free to contact me via email at ██████████ if you have any questions regarding this histopathology report.

Please see the report for details.

## HISTOPATHOLOGY

Animal: 1	
heart	Heart. There are multifocal areas of cardiomyocytes degeneration / necrosis with interstitial fibrosis. This change affect 20% of the left ventricle. The valve is mildly degenerate with myxomatous changes.
lung	no significant lesions
pericardium	This tissue is comprised of pericardium and adipose tissue. There are mature fibroblasts associated with fibrous connective. There are few reactive mesothelial cells.
skin	Skin. There are multifocal areas of mild to moderate orthokeratotic hyperkeratosis. The epidermis is 1-2 cell layers thick. There is an increased number of hair follicles in telogen phase. There is no significant inflammation.
SQ mass	Skin. In one of the skin sample received, there is an increased of dermal / subcutaneous fibrous connective tissue, forming a poorly defined mass like structure.

Jarrell, Leslie (she/her/hers)

AHR 22187 -

Johnny

**From:** Jarrell, Leslie  
**Sent:** Friday, December 30, 2022 2:55 PM  
**To:** [REDACTED] Leslie Jarrell (MPF); [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie; [REDACTED]  
**Subject:** RE: AHR# 22187- resolved, and AHR closed  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi all, Rechecked this rabbit today. S/O; BARH, no eye discharge, eyelids with no erythema, no blepharospasm. A/P; eye issue appears resolved. Close AHR.  
Thank you,  
Leslie

Leslie Jarrell, JD, DVM, DACLAM, CertAqV (WAVMA)  
Contractor for the US EPA- MPF Federal  
Attending Veterinarian for RTP campus and Health IACUC  
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**To:** [REDACTED] Leslie Jarrell (MPF) <ljarrell@mpffederal.com>; [REDACTED]

**Cc:** [REDACTED] Graff, Jaimie <Graff.Jaimie@epa.gov>; [REDACTED]

**Subject:** RE: AHR# 22187- update Tues 12272022  
**Importance:** High

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A: Suspect irritation from shampoo  
P: 1. Discontinue topical terramycin today due to improvement of signs  
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Thanks,  
Leslie

Leslie Jarrell, JD, DVM, DACLAM, CertAdV (WAVMA)  
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Pronouns- she, her, hers  
Work cell 919-704-0532

**From:** [REDACTED]  
**Sent:** Friday, December 23, 2022 4:23 PM  
**To:** Leslie Jarrell (MPF) <[ljjarrell@mpffederal.com](mailto:ljjarrell@mpffederal.com)>; Jarrell, Leslie <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]  
[REDACTED]

**Subject:** Re: AHR# 22187

Dear All,

My assessment is similar to that described in the AHR for rabbit 111 "Johnny". The Left eye has mild peri-orbital swelling and inflammation present along with evidence of dry crusty material. No blepharospasm (squinting) or pawing at the sight, so suggests that it isn't painful and therefore less likely involving any corneal ulceration though we were not able to find any fluorescein stain for more definitive diagnosis of that condition. Rabbit 111 was observed to eat during this time and took a treat readily so also suggestive that it is not painful or in distress. Terramycin ophthalmic ointment was applied and treatment with terramycin will continue SID until Tuesday with a re-check at that time. If there are any questions, please feel free to contact me.

Best,  
[REDACTED] DVM, DACLAM, MBA

On Friday, December 23, 2022 at 09:37:40 AM EST, [REDACTED] wrote:

Hey all,

I had a look at this animal when the AHR came in. The conjunctiva of the left eye is swollen and very red. Discharge is a milky white with a little bit of red. Animal is otherwise BARH. I watched him in the cage for a little bit and he wasn't rubbing at the eye or trying to wipe his face on anything. Technician believes that the animal could have possibly gotten soap in his eye during the bath.

Thanks!

**From:** [REDACTED]  
**Sent:** Friday, December 23, 2022 9:31 AM  
**To:** Leslie Jarrell (MPF) <[ljjarrell@mpffederal.com](mailto:ljjarrell@mpffederal.com)>; Jarrell, Leslie <[Jarrell.Leslie@epa.gov](mailto:Jarrell.Leslie@epa.gov)>; [REDACTED]

**Subject:** AHR# 22187

Number: 22187

Date Found: 12/23/22

Time Found: 8:25am

Found by:

Room: A486B

Investigator:

LAPR#: 25-04-001

Species/Strain: Rabbit/NZW

Sex: Male

DOB: 05/15/2018

Bred:

Date Received: 08/02/2018

Animal ID/Cage #: 111

Discharge from left eye. Area around left eye swollen. Had a bath yesterday. Eye discharge looks milky.

## SMALL MAMMAL PATIENT EXAMINATION REPORT CARD

1. Coat/Fur & Skin		ESTS NEEDED: <input type="checkbox"/> Annual Blood Work <input type="checkbox"/> Urinalysis <input type="checkbox"/> Fecal Examination <input type="checkbox"/> Spay / Neuter <input type="checkbox"/> Microchip <input type="checkbox"/> Skin Scraping <input type="checkbox"/> Fungal Culture <input type="checkbox"/> Ear Cytology	RECOMMENDATIONS: Cage Change: _____ Bedding Change: Change Type _____ Diet Change: Please see handout _____		Tech Initials: _____
<b>2. Eyes</b> Appears Normal Inflamed Eyelid Deformities Cataract: L R	Dull/Dry Scabs Shedding Tumors Hair Loss Discharge Infection Ulcer: L R				
<b>3. Ears</b> Appears Normal Dirty Tumor: L R Excessive Hair	Inflamed: L R Mites Infected Painful				
<b>4. Nose</b> Appears Normal Other: _____	Nasal Discharge				
<b>5. Mouth, Teeth, Gums</b> Appears Normal Tartar Buildup Overgrown Incisors Overgrown Molars Overgrown roots	Broken Teeth Tumors Inflamed Lips Periodontal Disease Abscessed				
<b>6. Legs &amp; Paws</b> Appears Normal Nail Problems Other: _____	Joint Problems Lameness				
<b>7. Heart</b> Appears Normal Slow Murmur	Fast Irregular				
<b>8. Lungs</b> Appears Normal Abnormal Sound Rapid Respiration	Coughing Congestion Dyspnea				
<b>9. Abdomen</b> Appears Normal Enlarged Organs Fluid	Abnormal Mass Tense/Painful Swollen				
<b>10. Gastrointestinal System</b> Appears Normal Stasis/ Impaction Anorexia	Abnormal Feces Parasites				
<b>11. Urogenital System</b> Appears Normal Mammary Tumors Abnormal Testicles	Abnormal Urination Genital Discharge				
<b>12. Weight</b> Normal Heavy By: _____	Obese Thin By: _____				
<b>DIAGNOSIS OR PROBLEMS</b>		<b>PROGNOSIS</b>	<b>DIFFERENTIAL DIAGNOSIS</b>	<b>PLAN</b>	
<b>Today's Date:</b> 12/27/22 updated <b>Chart #:</b> _____ <b>Species/ Breed:</b> _____ <b>DOB:</b> _____ <b>Pet's Name:</b> _____ <b>Last Name:</b> _____ <b>Color:</b> _____ <b>Sex:</b> _____					

Date 11/17/22

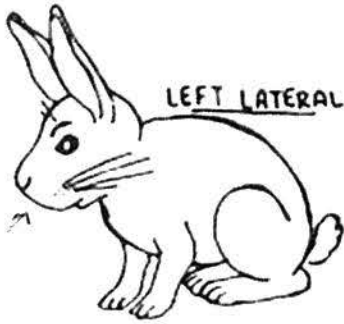
exam

Johnny

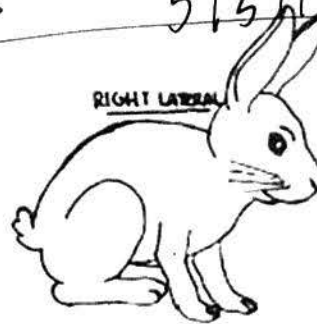
# 111

DOB

5/5/18



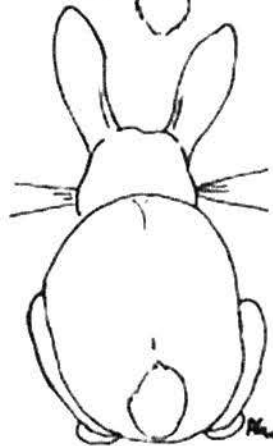
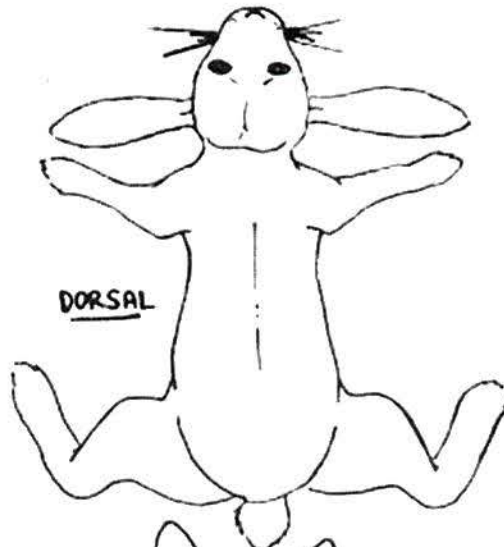
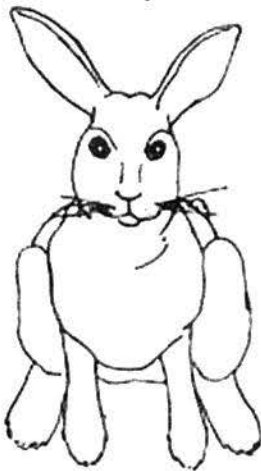
none →



extremely  
fluffy + clean  
feet

(R) →

small  
aloe vera



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NOV 2021 weight 3.46 kg  
11/17/22 weight 3.69 kg

111



## Jarrell, Leslie

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**From:** Jarrell, Leslie  
**Sent:** Tuesday, November 29, 2022 3:57 PM  
**To:** [REDACTED]  
**Cc:** Graff, Jaimie; [REDACTED]  
**Subject:** Rabbits - update 11292022

Hi all,

[REDACTED] and I did the rabbits' exams on Nov 17, 2022.

1. Jasper 104. DOB 5/7/14. Weight 11/21/22= 3.81 kg, Weight 11/21/21= 3.65 kg, Weight 4/26/21= 3.66 kg, Weight 4/27/2020= 3.96 kg. Bright, alert, responsive and hydrated. **Pinpoint scabs** at both sides of face on cheeks, no alopecia, no pruritus. Very mild pododermatitis both hind feet. Fur is thin but clean on ventral surface of feet. 1 cm diameter subcutaneous mass, freely movable, right lateral chest. Perineum slightly pink but not inflamed. Monitor.
2. Wyatt 109. DOB 5/5/18. Weight 11/21/22= 4.16 kg, Weight 11/21/21= 3.84 kg, Weight 4/26/21= 3.66 kg. Weight 4/27/2020= 3.68 kg. Bright, alert, responsive and hydrated. **Pinpoint scabs** at both sides of face on cheeks, no alopecia, no pruritus. Mild pododermatitis right hind foot. Feet are well furred and clean. Small circle of alopecia only 2 mm diameter circle at point of hock right foot only.
3. Doc 110. DOB 5/5/18. Weight 11/21/22= 3.52 kg, Weight 11/21/21= 3.49 kg, Weight 4/26/21= 3.44 kg, Weight 4/27/2020= 3.34 kg. Bright, alert, responsive and hydrated. **Pinpoint scabs** at both sides of face on cheeks, no alopecia, no pruritus. Right ear pinna has healed old wound from bite, with skin tag, healed well. Mild pododermatitis both hind feet. Clean, well furred feet. Small circle of alopecia 2 mm diameter circle at point of hock right hind and about 4 mm diameter on left hind.
4. Johnny 111. DOB 5/5/18. Weight 11/21/22= 3.69 kg, Weight 11/21/21= 3.46 kg, Weight 4/26/21= 3.53 kg. Weight 4/27/2020= 3.48 kg. Bright, alert, responsive and hydrated. Mild pododermatitis both hind feet. Very clean, well furred feet. Small circle of alopecia 2 mm diameter circle at point of hock right foot only.

### Notes;

- Wyatt has gained weight. Recommend decrease his pellets by  $\frac{1}{4}$  cup per day
- Suspect Cheyletiella mites. Jasper, Doc and Johnny have localized areas with small scabs with tufts of fur attached, only around jaws. No alopecia or lesions at mouth/ lip commissures or genitalia. We looked carefully at lesions but did not see any mites moving. Did not see mites on slides of tape tests either.
- Cheyletiella mites are generally species specific. However the rabbit species, *Cheyletiella parasitivorax*, prefers rabbits but can affect other species (dog, cat, people) and is zoonotic. Transmission; direct animal to animal or fomites.
- Today we took some fur samples w scabs for ectoparasite testing at IDEXX. Ordering selamectin for treatment. I will treat the rabbits even if tests come back negative, as mites are not always seen in all samples. Cheyletiella infestation can be asymptomatic. I don't expect issues with either having mites or treatment with topical selamectin.

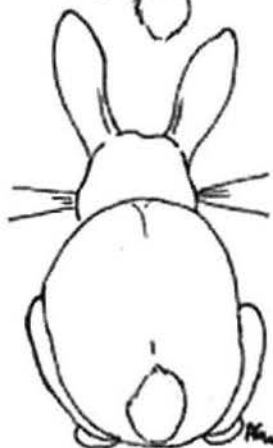
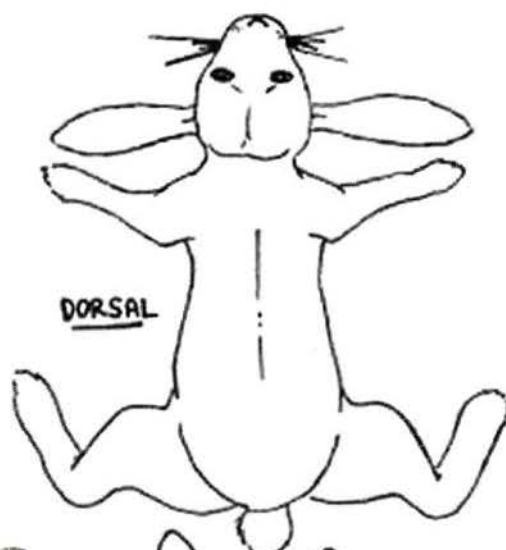
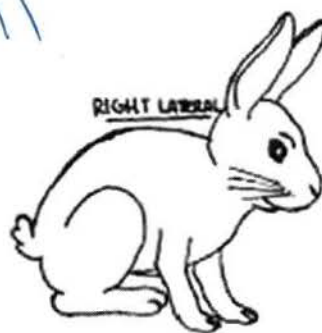
Thanks very much,  
Leslie

<b>1. Coat/Fur &amp; Skin</b> Appears normal Scaly Infection Matted Itchy  <b>2. Eyes</b> Appears Normal Inflamed Eyelid Deformities Cataract: L R  <b>3. Ears</b> Appears Normal Dirty Tumor: L R Excessive Hair  <b>4. Nose</b> Appears Normal Other:  <b>5. Mouth, Teeth, Gums</b> Appears Normal Tartar Buildup Overgrown Incisors Overgrown Molars Overgrown roots  <b>6. Legs &amp; Paws</b> Appears Normal Nail Problems Other:  <b>7. Heart</b> Appears Normal Slow Murmur  <b>8. Lungs</b> Appears Normal Abnormal Sound Rapid Respiration  <b>9. Abdomen</b> Appears Normal Enlarged Organs Fluid  <b>10. Gastrointestinal System</b> Appears Normal Stasis/ Impaction Anorexia  <b>11. Urogenital System</b> Appears Normal Mammary Tumors Abnormal Testicles  <b>12. Weight</b> Normal Heavy By: Thin By:	<b>TEST</b> Annual Urinalysis Fecal Examination Spay / Neuter Microchip Skin Scraping Fungal Culture Ear Cytology  <b>RECOMMENDATIONS:</b> <input type="checkbox"/> Cage Change: <input type="checkbox"/> Bedding Change: Change Type <input type="checkbox"/> Diet Change: Please see handout  <b>Appetite:</b> normal / increased / decreased <b>Water Intake:</b> normal / increased / decreased <b>Coughing:</b> No / Yes, Frequency: <b>Sneezing:</b> No / Yes, Frequency:	<b>Tech Initials:</b>  <b>Temp:</b>  <b>Weight:</b>  <b>Urination:</b> normal / increased / decreased <b>Attitude:</b> normal / abnormal <b>Feces:</b> normal / abnormal  <b>Presented For:</b> Annual exam  <b>Historical Issues/ Medications:</b> pododermatitis, mild  <b>Current Diet:</b> limited pellets, unlt'd grass hay, fresh veg, few treats  <b>Examination:</b> BAR 14. clean + fluffy fur on feet. (P) hind - small circle of alopecia, (D) is good (A) Mild pododermatitis (P) 1. Monitor feet of 6 mo or pr 2 other rabbits have suspect mites - will prophylactically treat w/ selamectin
<b>Doctor:</b> Dr. [Name], DVM <b>Need:</b> PR <b>In:</b> 6 months <b>Prn:</b> Days		
<b>DIAGNOSIS OR PROBLEMS</b> 1. Pododermatitis mild fair 2. No mites but may be in playpen?	<b>PROGNOSIS</b> continue to monitor Tx selamectin	<b>DIFFERENTIAL DIAGNOSIS</b> 1x 1 month
<b>Today's Date:</b> 11/17/22 <b>Chart #:</b> <b>Species/Breed:</b> Rabbit / NZW <b>DOB:</b> <b>Pet's Name:</b> Johnny <b>Last Name:</b> <b>Color:</b> white <b>Sex:</b>		



Johnny Ringo

#111

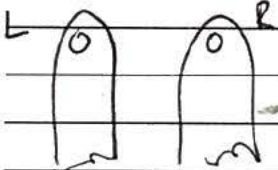


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6/3/22

Admin 0.5 ml RHOV2 SQ ~~Δ~~  
shoulder

# SMALL MAMMALS PATIENT EXAMINATION REPORT CARD

<b>1. Coat/Fur &amp; Skin</b> Appears normal    Dull/Dry Sealy    Scabs Shedding Matted    Tumors Itchy    Hair Loss	<b>TESTS NEEDED:</b> Annual Blood Work Urinalysis Fecal Examination Spay / Neuter Microchip Skin Scraping Fungal Culture Ear Cytology	<b>RECOMMENDATIONS:</b> Cage Change: _____ Bedding Change: Change Type Diet Change: Please see handout	<b>Tech Initials:</b> _____ <b>Temp:</b> _____ <b>Weight:</b> _____
<b>2. Eyes</b> Appears Normal    Discharge Inflamed    Infection Eyelid Deformities    Ulcer: L R Cataract: L R	<b>Appetite:</b> normal / increased / decreased <b>Urination:</b> normal / increased / decreased <b>Water Intake:</b> normal / increased / decreased <b>Attitude:</b> normal / abnormal <b>Coughing:</b> No / Yes, Frequency: _____ <b>Feces:</b> normal / abnormal <b>Sneezing:</b> No / Yes, Frequency: _____		
<b>3. Ears</b> Appears Normal    Inflamed: L R Dirty    Mites Tumor: L R    Infected Excessive Hair    Painful	<b>Presented For:</b> <u>Annual exam</u>		
<b>4. Nose</b> Appears Normal    Nasal Discharge Other: _____	<b>Historical Issues/ Medications:</b> <u>pododermatitis</u>		
<b>5. Mouth, Teeth, Gums</b> Appears Normal    Broken Teeth Tartar Buildup    Tumors Overgrown Incisors    Inflamed Lips Overgrown Molars    Periodontal Disease Overgrown roots    Abscessed	<b>Current Diet:</b> <u>timothy, orchard grass, pellets, fresh veg</u>		
<b>6. Legs &amp; Paws</b> Appears Normal    Joint Problems Nail Problems    Lameness Other: _____	<b>Examination:</b> <u>HR 240 PR sniff Abd mild</u> <u>NO murmurs BAPR H Abd - no masses</u> <u>Mild pododermatitis</u> <u>no scabs</u>		
<b>7. Heart</b> Normal Slow    Fast Murmur    Irregular	 <u>no hair loss</u> <u>fully furrowed</u>		
<b>8. Lungs</b> Appears Normal    Coughing Abnormal Sound    Congestion Rapid Respiration    Dyspnea	<u>pencil size alopecia</u> <u>mild alopecia only</u> <u>(A/E) pododermatitis mild</u> <u>rec + exercise + interaction</u>		
<b>9. Abdomen</b> Appears Normal    Abnormal Mass Enlarged Organs    Tense/Painful Fluid    Swollen	<u>5/11/22</u> <u>11:50 AM Admin 0.5 ml RHPV2 Medigene</u> <u>vaccine SQ [X] [X]</u> <u>1pm - OK</u> <u>4pm - OK</u>		
<b>10. Gastrointestinal System</b> Appears Normal    Abnormal Feces Stasis/ Impaction    Parasites Anorexia	<u>3-6mo</u> <b>Doctor:</b> Doctor's name, DVM <b>Need:</b> _____ <b>In:</b> _____ <b>Days</b>		
<b>11. Urogenital System</b> Appears Normal    Abnormal Urination Mammary Tumors    Genital Discharge Abnormal Testicles	<b>DIAGNOSIS OR PROBLEMS</b> <b>PROGNOSIS</b> <b>DIFFERENTIAL DIAGNOSIS</b> <b>PLAN</b>		
<u>5/10/22</u> <b>Today's Date:</b> <u>5/10/22</u> <b>Chart #:</b> <u>111</u> <b>Species/ Breed:</b> <u>NZW</u> <b>DOB:</b> _____ <b>Pet's Name:</b> <u>111 Johnny</u> <b>Last Name:</b> _____ <b>Color:</b> _____ <b>Sex:</b> _____ <u>Rings</u>		<u>mild pododermatitis</u> <u>Booster 3 weeks</u>	



# SMALL MAMMA PATIENT EXAMINATION REPORT CARD

## 1. Coat/Fur & Skin

Appears normal Dull/Dry  
Scaly Scabs  
Infection Shedding  
Matted Tumors  
Itchy Hair Loss

## 2. Eyes

Appears Normal Discharge  
Inflamed Infection  
Eyelid Deformities Ulcer: L R  
Cataract: L R

## 3. Ears

Appears Normal Inflamed: L R  
Dirty Mites  
Tumor: L R Infected  
Excessive Hair Painful

## 4. Nose

Appears Normal Nasal Discharge  
Other:

## 5. Mouth, Teeth, Gums

Appears Normal Broken Teeth  
Tartar Buildup Tumors  
Overgrown Incisors Inflamed Lips  
Overgrown Molars Periodontal Disease  
Overgrown roots Abscessed

## 6. Legs & Paws

Appears Normal Joint Problems  
Nail Problems Lameness  
Other:

## 7. Heart

Appears Normal Fast  
Slow Irregular  
Murmur

## 8. Lungs

Appears Normal Coughing  
Abnormal Sound Congestion  
Rapid Respiration Dyspnea

## 9. Abdomen

Appears Normal Abnormal Mass  
Enlarged Organs Tense/Painful  
Fluid Swollen

## 10. Gastrointestinal System

Appears Normal Abnormal Feces  
Stasis/Impaction Parasites  
Anorexia

## 11. Urogenital System

Appears Normal Abnormal Urination  
Mammary Tumors Genital Discharge  
Abnormal Testicles

## 12. Weight

Normal Obese  
Heavy By: Thin By:

## TESTS NEEDED:

Annual Blood Work  
Urinalysis  
Fecal Examination  
Spay / Neuter  
Microchip  
Skin Scraping  
Fungal Culture  
Ear Cytology

## RECOMMENDATIONS:

Cage Change:  
Bedding Change: Change Type  
Diet Change: Please see handout

Tech Initials: \_\_\_\_\_

Temp: \_\_\_\_\_

Weight: \_\_\_\_\_

Appetite: normal / increased / decreased  
Water Intake: normal / increased / decreased  
Coughing: No / Yes, Frequency: \_\_\_\_\_  
Sneezing: No / Yes, Frequency: \_\_\_\_\_  
Urination: normal / increased / decreased  
Attitude: normal / abnormal  
Feces: normal / abnormal

Presented For: q 6 mo exam

Historical Issues/ Medications: alopecia feet

Current Diet: grass pellets / hay / veg / veg treats

## Examination:

SIO BARTH WT 3.61kg 1/11/21  
DOB 5/15/18 WT 3.49kg 12/02/21 (OK)  
3.5 YO ME

Abd quiet

Feet well formed small alopecia  
pt of hocks (L) hind only

(AIP) Appears healthy  
Rev 1 year

2 years

Doctor: Doctor's name, DVM Need: \_\_\_\_\_ In: \_\_\_\_\_ Days

## DIAGNOSIS OR PROBLEMS

## PROGNOSIS

## DIFFERENTIAL DIAGNOSIS

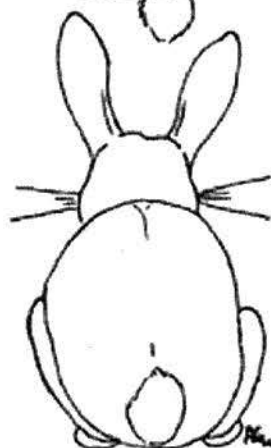
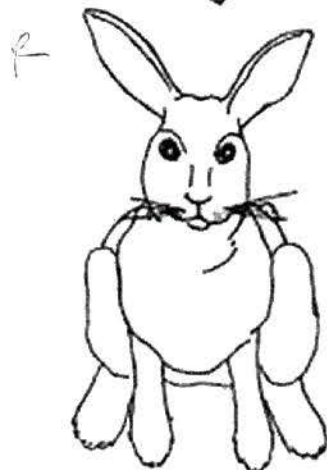
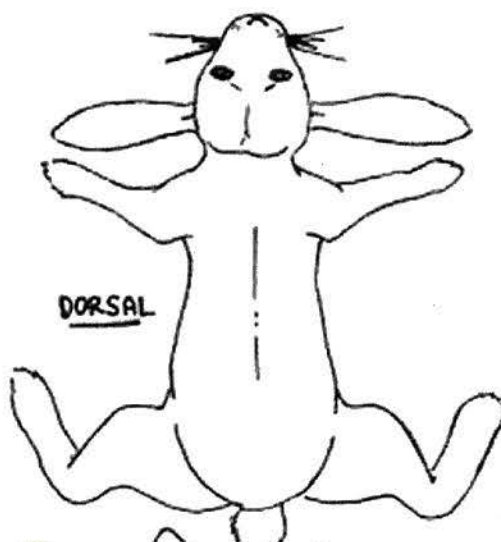
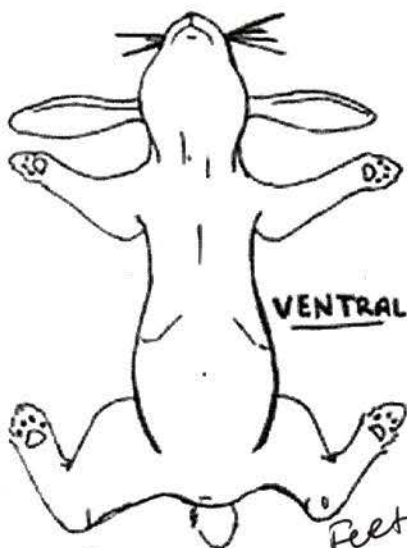
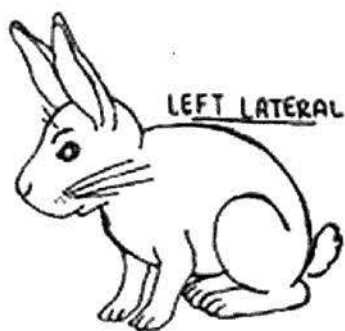
## PLAN

none

1/1

continue to  
watch for  
Pododermatitis

Today's Date: 12/02/21 Chart #: \_\_\_\_\_ Species/ Breed: Rabbit NZW DOB: 5/15/18  
Pet's Name: Johnny Frigo Last Name: \_\_\_\_\_ Color: \_\_\_\_\_ Sex: \_\_\_\_\_



Misral Animal Clinic, Inc. 420 Ukuli Street, Kailua, HI 96734 808-262-6621

III Johnny 12/2/21

Feet well furred!

BARH - No lesions

J. Daniel



## Jarrell, Leslie

---

**From:** Jarrell, Leslie  
**Sent:** Wednesday, April 28, 2021 4:12 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED] Graff, Jaimie;  
**Subject:** Rabbits update 04282021

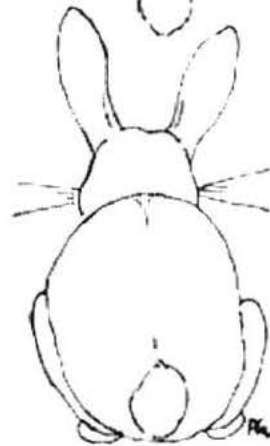
Hi all,  
[REDACTED] and I did the rabbit exams today.

1. Tex 101. DOB 5/7/14. Weight 4/26/21= 3.85 kg. Weight 4/27/2020= 4.1 kg. Brief exam. BARH. Mild pododermatitis both hind feet, fur is thin but clean on ventral surface of feet, small areas of alopecia about 2 mm diameter circle at point of hock both feet, small rectangular areas about 1.5 cm long adjacent of alopecia.
2. Leo 102. DOB 5/7/14. Weight 4/26/21= 3.72 kg. Weight 4/27/2020= --checking-- kg. Brief exam. BARH. Very mild pododermatitis both hind feet. Fur is thin but clean on ventral surface of feet, circle of alopecia about 3- 4 mm diameter circle at point of hock both feet, small thin rectangular areas about 1 cm long adjacent of alopecia.
3. Jasper 104. DOB 5/7/14. Weight 4/26/21= 3.66 kg. Weight 4/27/2020= 3.96 kg. Brief exam. BARH. Very mild pododermatitis both hind feet. Fur is thin but clean on ventral surface of feet, circle of alopecia only 2 mm diameter circle at point of hock both feet. Small about 3 mm diameter skin / subcutaneous mass, freely movable, right lateral chest. Monitor
4. Trixie 105. DOB 5/7/14. Weight 4/26/21= 4.77 kg. Weight 4/27/2020= 4.78 kg. Brief exam. BARH. Mild pododermatitis both hind feet. Fur is thin but clean on ventral surface of feet, circle of alopecia about 3 mm diameter circle at point of hock both feet. Left hind foot has rectangular area of alopecia on lateral side of foot, no scabs or inflammation. Right hind foot has thin rectangular area of alopecia adjacent to circle. No scabs. Non-painful on abdominal palpation, uterus is enlarged, bladder palpable. A/P: Suspect uterine cancer due to age and exam. Monitor
5. Daisy 108. DOB 9/2/15. Weight 4/26/21= 3.81 kg. Weight 4/27/2020= 3.82 kg. Brief exam. BARH. Very mild pododermatitis both hind feet. Feet are very well furred. Circle of alopecia about 2 mm diameter circle at point of hock both feet. Non-painful on abdominal palpation, uterus is enlarged or thickened. Soft abdomen. A/P: Suspect uterine cancer due to age and exam. Monitor
6. Wyatt 109. DOB 5/5/18. Weight 4/26/21= 3.66 kg. Weight 4/27/2020= 3.68 kg. Brief exam. BARH. Mild pododermatitis both hind feet. Feet are dirty but very well furred. Small circle of alopecia only 2 mm diameter circle at point of hock both feet.
7. Doc 110. DOB 5/5/18. Weight 4/26/21= 3.44 kg. Weight 4/27/2020= 3.34 kg. Brief exam. BARH. Mild pododermatitis both hind feet. Very clean, well furred feet. Small circle of alopecia 2 mm diameter circle at point of hock both feet.
8. Johnny 111. DOB 5/5/18. Weight 4/26/21= 3.53 kg. Weight 4/27/2020= 3.48 kg. Brief exam. BARH. Mild pododermatitis both hind feet. Very clean, well furred feet. Small circle of alopecia 2 mm diameter circle at point of hock both feet.

Several rabbits had small scabs with tufts of fur attached behind ear or on neck. No skin lesions associated with these, no itching. Skin underlying appeared normal. Unknown cause. Took a few tufts with scab for fungal culture (dermatophyte) and a few tufts with scab for PCR. Am not suspecting anything exciting.

Thanks very much,  
Leslie

# 141



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